



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@po.state.ct.us](mailto:siting.council@po.state.ct.us)

[www.ct.gov/csc](http://www.ct.gov/csc)

July 16, 2004

Kenneth C. Baldwin, Esq.  
Robinson & Cole LLP  
280 Trumbull Street  
Hartford, CT 06103-3597

RE: **EM-VER-107-040701** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at South Orange Center Road, Orange, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on July 13, 2004, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated July 1, 2004, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

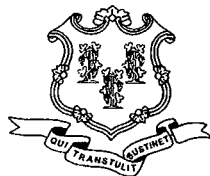
Thank you for your attention and cooperation.

Very truly yours,

Pamela B. Katz, P.E.  
Chairman

PBK/laf

c: Honorable Mitchell R. Goldblatt, First Selectman, Town of Orange  
Paul Dinice, Zoning Enforcement Officer, Town of Orange  
Christopher B. Fisher, Esq., Cuddy & Feder LLP  
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP



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Web Site: [www.ct.gov/csc](http://www.ct.gov/csc)

July 1, 2004

Honorable Mitchell R. Goldblatt  
First Selectman  
Town of Orange  
617 Orange Center Road  
Orange, CT 06477-2423

RE: **EM-VER-107-040701** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at South Orange Center Road, Orange, Connecticut.

Dear Mr. Goldblatt:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for July 13, 2004 at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps  
Executive Director

SDP/cm

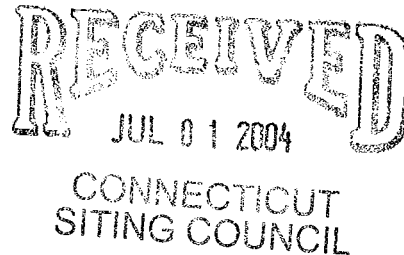
Enclosure: Notice of Intent

c: Paul Dinice, Zoning Enforcement Officer, Town of Orange

280 Trumbull Street  
Hartford, CT 06103-3597  
Main (860) 275-8200  
Fax (860) 275-8299  
kbaldwin@rc.com  
Direct (860) 275-8345

July 1, 2004

*Via Hand Delivery*



S. Derek Phelps  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**Re: Notice of Exempt Modification – Antenna Swap  
South Orange Center Road Telecommunications Facility  
Orange, Connecticut**

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains a wireless telecommunications facility at South Orange Center Road in Orange. This facility consists of twelve (12) panel-type cellular antennas at the 117-foot level of the 180-foot tower. Equipment associated with the antenna is located in an equipment shelter near the base of the tower.

The Connecticut Siting Council (“the Council”) approved Cellco’s shared use of the South Orange Center Road facility on May 21, 2002 (TS-VER-107-020508). Cellco now intends to modify its facility by replacing the six (6) cellular antennas with six (6) PCS antennas at the same 117-foot level on the tower. Attached behind Tab 1 are specifications for the existing cellular antennas and the proposed PCS antennas for the South Orange Center Road facility.



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Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Orange First Selectman, Mitchell R. Goldblatt.

As the Council knows, on May 23, 2003, Cellco acquired, from Northcoast Communications, a license to provide PCS service throughout Connecticut. The proposed modifications to the South Orange Center Road facility will allow Cellco to

S. Derek Phelps

July 1, 2004

Page 2

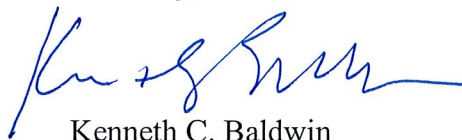
provide its customers in the Orange area with enhanced wireless voice and data services.

The planned modifications to the South Orange Center Road facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in any increase in the overall height of the existing structure. Cellco's replacement antennas will be mounted at the same 117-foot level on the 180-foot tower.
2. The proposed modifications will not affect associated equipment areas and will not require the extension of the site boundaries.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more.
4. The proposed modifications will not result in radio frequency (RF) power density levels at the facility that exceed the Federal Communications Commission (FCC) adopted safety standard. Attached behind Tab 2 is a Power Density Calculation Table.

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Kenneth C. Baldwin

KCB/kmd

Enclosures

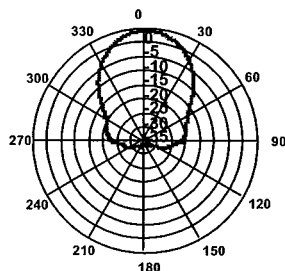
cc: Mitchell R. Goldblatt, Orange First Selectman  
Sandy M. Carter



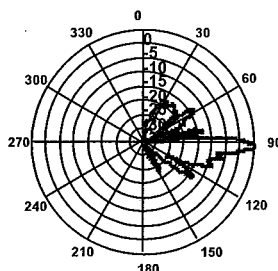
<b>DECIBEL®</b> <i>Base Station Antennas</i>	<b>950F40T2E-M</b> 20.1 dBi, Directed Dipole Antenna 1850-1990 MHz	<b>1850-1990 MHz</b>
		<b>dB Director®</b>

- Exceptional azimuth roll-off reducing soft hand-offs and improving capacity
- Excellent upper side lobe suppression
- Deep null filling below the horizon assures improved signal intensity

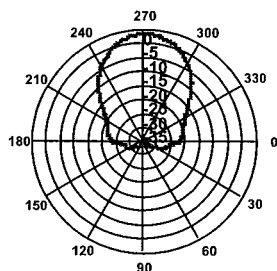
40°



Azimuth 1910 MHz (Tilt=2)



Vertical 1910 MHz (Tilt=2)



Horizontal 1910 MHz (Tilt=2)



ELECTRICAL		MECHANICAL	
Frequency (MHz):	1850-1990	Weight:	21 lbs (9.5 kg)
Polarization:	Vertical	Dimensions (LxWxD):	60 X 12 X 8 in (1524 X 305 X 203 mm)
Gain (dBd/dBi):	18/20.1	Max. Wind Area:	2.69 ft² (0.25 m²)
Azimuth BW:	40°	Max. Wind Load (@ 100mph):	152 lbf (676 N)
Elevation BW:	6.5°	Max. Wind Speed:	125 mph (201 km/h)
Beam Tilt:	2°	Radiator Material:	Low Loss Circuit Board
USLS* (dB):	>18	Reflector Material:	Aluminum
Null Fill* (dB):	12	Radome Material:	ABS, UV Resistant
Front-to-Back Ratio* (dB):	40	Mounting Hardware Material:	Galvanized Steel
VSWR:	<1.33:1	Connector Type:	7-16 DIN - Female (Bottom)
Impedance:	50 Ohms	Color:	Light Gray
Max Input Power:	250 Watts	Standard Mounting Hardware:	DB390 Pipe Mount Kit, included
Lightning Protection:	DC Ground	Downtilt Mounting Hardware:	DB5098, optional
Opt Electrical Tilt:	4°	Opt. Mounting Hardware:	DB5094-AZ Azimuth Wall Mount



Andrew Corporation  
 8635 Stemmons Freeway  
 Dallas, Texas U.S.A 75247-3701  
 Tel: 214.631.0310

Fax: 214.631.4706  
 Toll Free Tel: 1.800.676.5342  
 Fax: 1.800.229.4706  
 www.andrew.com

Date: 4/6/2004  
 \* - Indicates Typical Values

[dbtech@andrew.com](mailto:dbtech@andrew.com)

**DECIBEL®**  
Base Station Antennas

**DB844G45ZAXY**

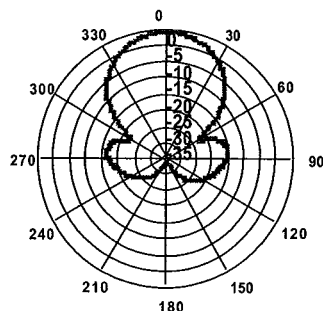
14.6 dBd, Log, No Screen Antenna  
806-896, 870-960 MHz

806-896 MHz  
870-960 MHz

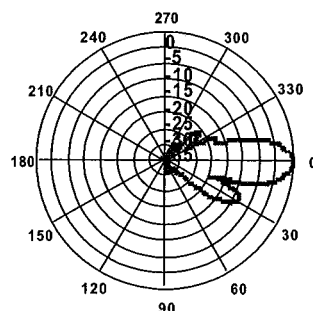
**GEN3VPOL™**  
**ZoneMaster™**

- Excellent azimuth roll-off, reducing sector to sector interference and reducing soft hand-offs
- Air dielectric feed system, no screws, rivets, welds or solder in RF element feed path
- Strong upper side lobe suppression
- Low profile appearance and low wind loading profile for easier zoning approvals

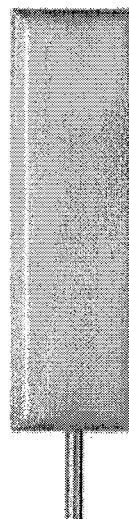
45°



Horizontal 850 MHz (Tilt=0)



Vertical 850 MHz (Tilt=0)



ELECTRICAL			MECHANICAL	
Frequency (MHz):	806-896	870-960	Weight:	17 lbs (7.7 kg)
Polarization:	Vertical	Vertical	Dimensions (LxWxD):	48 X 15 X 8.5 in (1219 X 381 X 216 mm)
Gain (dBd/dBi):	14.6/16.7	15.1/17.2	Max. Wind Area:	2.15 ft <sup>2</sup> (0.20 m <sup>2</sup> )
Azimuth BW:	45°	45°	Max. Wind Load (@ 100mph):	120 lbf (534 N)
Elevation BW:	16°	15°	Max. Wind Speed:	125 mph (201 km/h)
Beam Tilt:	0°	0°	Radiator Material:	Aluminum
USLS* (dB):	>20	>20	Reflector Material:	Aluminum
Front-to-Back Ratio* (dB):	40	40	Radome Material:	ABS, UV Resistant
VSWR:	<1.33:1	<1.33:1	Mounting Hardware Material:	Galvanized Steel
IM Suppression - Two 20 Watt Carriers:	-150 dBc	-150 dBc	Connector Type:	7-16 DIN - Female (Back)
Impedance:	50 Ohms	50 Ohms	Color:	Light Gray
Max Input Power:	500 Watts	500 Watts	Standard Mounting Hardware:	DB380 Pipe Mount Kit, included
Lightning Protection:	DC Ground	DC Ground	Downtilt Mounting Hardware:	DB5083, optional
Opt Electrical Tilt:	Variable 0-16°	Variable 0-16°		



Andrew Corporation  
8635 Stemmons Freeway  
Dallas, Texas U.S.A 75247-3701  
Tel: 214.631.0310

Fax: 214.631.4706  
Toll Free Tel: 1.800.676.5342  
Fax: 1.800.229.4706  
www.andrew.com

Warranty: Five years  
Date: 4/23/2004  
\* - Indicates Typical Values

dbtech@andrew.com